

Claims

1. A surface-roughened resin film comprising a polyester resin film whose surface roughness Ra (JIS B 0601) is 0.2 μm or greater.
2. The surface-roughened resin film according to claim 1 comprising a polyester resin film whose surface roughness Ra (JIS B 0601) is 0.5 μm or greater.
3. The surface-roughened resin film according to claim 1 or 2, formed by extruding a polyester resin obtained by incorporating therein 1% or more by weight of an inorganic particle with a particle size of 1 μm or greater.
4. The surface-roughened resin film according to claim 3, wherein the inorganic particle is one or more kinds of titanium dioxide, zinc oxide, calcium carbonate and silicone dioxide.
5. The surface-roughened resin film according to claim 1 or 2, formed by extruding a resin obtained by incorporating in the polyester resin film 5 to 30% by weight of a resin incompatible with the polyester resin film.
6. The surface-roughened resin film according to claim 5, wherein the resin incompatible with the polyester resin film is one or more kinds of a polyolefin resin and polymethylmethacrylate.
7. A surface-roughened resin film comprising a two-layer film consisting of a surface-roughened resin film according

to any one of claims 1 to 6 as the upper layer film and a lower layer film which has been provided thereunder and is composed of a resin obtained by blending one or more kinds of polyester resins and a polyolefin component composed of at least one kind selected from the group consisting of a polyolefin resin and polyolefin elastomer.

8. The surface-roughened resin film according to claim 7, wherein a polyolefin resin or a resin composed of a polyolefin resin and polyolefin elastomer is used as the polyolefin component.

9. The surface-roughened resin film according to any one of claims 6 to 8, wherein the polyolefin resin is a resin composed of one or more kinds of polymer resins of 1-alkene having 2 to 8 carbon atoms.

10. The surface-roughened resin film according to claim 9, wherein the 1-alkene polymer resin is any of polyethylene, polypropylene, ethylene-propylene copolymer.

11. The surface-roughened resin film according to any one of claims 6, 8 and 9, wherein the polyolefin resin is a polyolefin resin obtained by polymerization with a metallocene catalyst.

12. The surface-roughened resin film according to claim 7, wherein at least a part of the polyolefin resin is a modified polyolefin resin obtained by modification with any of maleic anhydride, acrylic acid, acrylic ester and diglycidyl

methacrylate.

13. The surface-roughened resin film according to claim 7 or 8, wherein the polyolefin elastomer is ethylene-propylene copolymer elastomer produced in plant with a melt flow rate (MFR: 230°C) of 0.4 to 30 g/10 minutes.

14. The surface-roughened resin film according to claim 7, wherein the blended resin constituting the lower layer film contains 1 to 30% by weight of the polyolefin component.

15. A metal sheet coated with a surface-roughened resin film, formed by laminating a surface-roughened resin film according to any one of claims 1 to 14 to a metal sheet.

16. A metal sheet coated with a surface-roughened resin film, formed by being coated with a polyester resin film having an uneven pattern formed on the surface by an embossing process.

17. The metal sheet coated with a surface-roughened resin film according to claim 16, wherein the surface roughness Ra (JIS B 0601) of the surface-roughened resin film is 0.2 μm or greater.

18. The metal sheet coated with a surface-roughened resin film according to claim 17, wherein the surface roughness Ra (JIS B 0601) of the surface-roughened resin film is 0.5 μm or greater.

19. A process for producing a metal sheet coated with a surface-roughened resin film characterized by laminating a surface-roughened resin film according to any one of claims

1 to 14 to a metal sheet.

20. A process for producing a metal sheet coated with a surface-roughened resin film characterized by laminating a polyester resin film having an uneven pattern formed on the surface by an embossing process to a metal sheet.

21. A process for producing a metal sheet coated with a surface-roughened resin film characterized by laminating a polyester resin film to a metal sheet and then embossing the surface of the polyester resin film.

22. A metal can having a surface coated with a surface-roughened resin film, formed by processing a metal sheet coated with a resin film, wherein the surface roughness Ra (JIS B 0601) of the resin film after being formed into a can is 0.5 μm or greater.

23. The metal can having a surface coated with a surface-roughened resin film according to claim 22, wherein the resin film is a polyester resin film.

24. A metal can having a surface coated with a surface-roughened resin film, formed by processing a metal sheet coated with a surface-roughened resin film according to any one of claims 15 to 18, wherein the surface roughness Ra (JIS B 0601) of the resin film after being formed into a can is 0.5 μm or greater.

25. The metal can having a surface coated with a surface-roughened resin film according to any one of claims

22 to 23, formed by processing a metal sheet coated with a resin film by drawing or by drawing with ironing with the use of a punch whose surface has been roughened.

26. A process for producing a metal can having a surface coated with a surface-roughened resin film characterized by processing a metal sheet coated with a polyester resin film and forming it into a can body by drawing or by drawing with ironing with the use of a punch whose surface has been roughened.